



WHO / UNICEF

**Joint Monitoring Programme
for Water Supply and Sanitation**

**Coverage Estimates
Improved Sanitation**

Updated in July 2008

Yemen

Urban and Rural Sanitation - Yemen

Survey

DHS 1992		
SANITATION	Urban	Rural
Flush toilet with sewer	38.1	0.5
Flush toilet without sewer	15.5	1.6
Pit	17	18.8
Street toilet drainage	0.4	0.5
Latrine shared	1.9	7.2
Bucket	0.5	0.9
Open air	19.8	15.5
Other	5.9	52.4
Missing	0.8	2.6
Missing	0.1	0
TOTAL	100	100
Estimation of improved pits based on DHS97 ratio	26.6	13.8
Access to improved sanitation	80%	16%
% House connections	38%	1%

Source: Yemen DHS, 1991-92

DHS 1997			
SANITATION	Urban	Rural	Total
Connected flush toilet	36.4	1.4	10.0
Disconnected flush toilet	20.0	3.1	7.3
Traditional pit*	8.5	22.0	18.6
Improved pit	26.7	16.7	19.2
Uncovered toilet	4.6	13.4	11.2
In the nature	3.5	43.3	33.4
Other	0.3	0.1	0.1
Missing	0.0	0.1	0.0
TOTAL	100.0	####	99.8
Ratio of improved pits ratio of nature/(nature+other)	0.67	0.32	1.0
Access to improved sanitation	83%	22%	
% House connections	36%	1%	

Source: Yemen DHS, 1997

* traditional pit not considered improved, because it seems that it includes some of the toilets connected to open drainage/ buckets if compared to the DHS 1992

FHS 2004		
SANITATION	Urban	Rural
Connected to public net	43.9	2.5
Unconnected to public net	32.0	15.1
Pit toilet/other	15.7	31.9
Public facility/open air/other	8.4	48.5
TOTAL	100.0	98.0
open defecation (estimation from DHS97)	7.7	48.4
Estimation of improved pits based on DHS97 ratio	10.5	10.2
Access to improved sanitation	86%	28%
% House connections	44%	3%

Source: Family Health Survey, 2004.

Census

CENSUS 1997		
(Population in thousands)		
SANITATION	Urban	Rural
Public Connection	1'082	0
Latrines (Open and Closed)	2'448	3'870
Not Specified	600	8'482
TOTAL POPULATION	4'130	12'352
Total Population Served	3'530	3'870
Estimation of improved pits based on DHS97 ratio	1642.3	1240.5
Access to improved sanitation	66%	10%
% House connections	26%	0%

Source: Central Statistical Organisation, Ministry of Planning and Development, Republic of Yemen, 1997.

Estimate

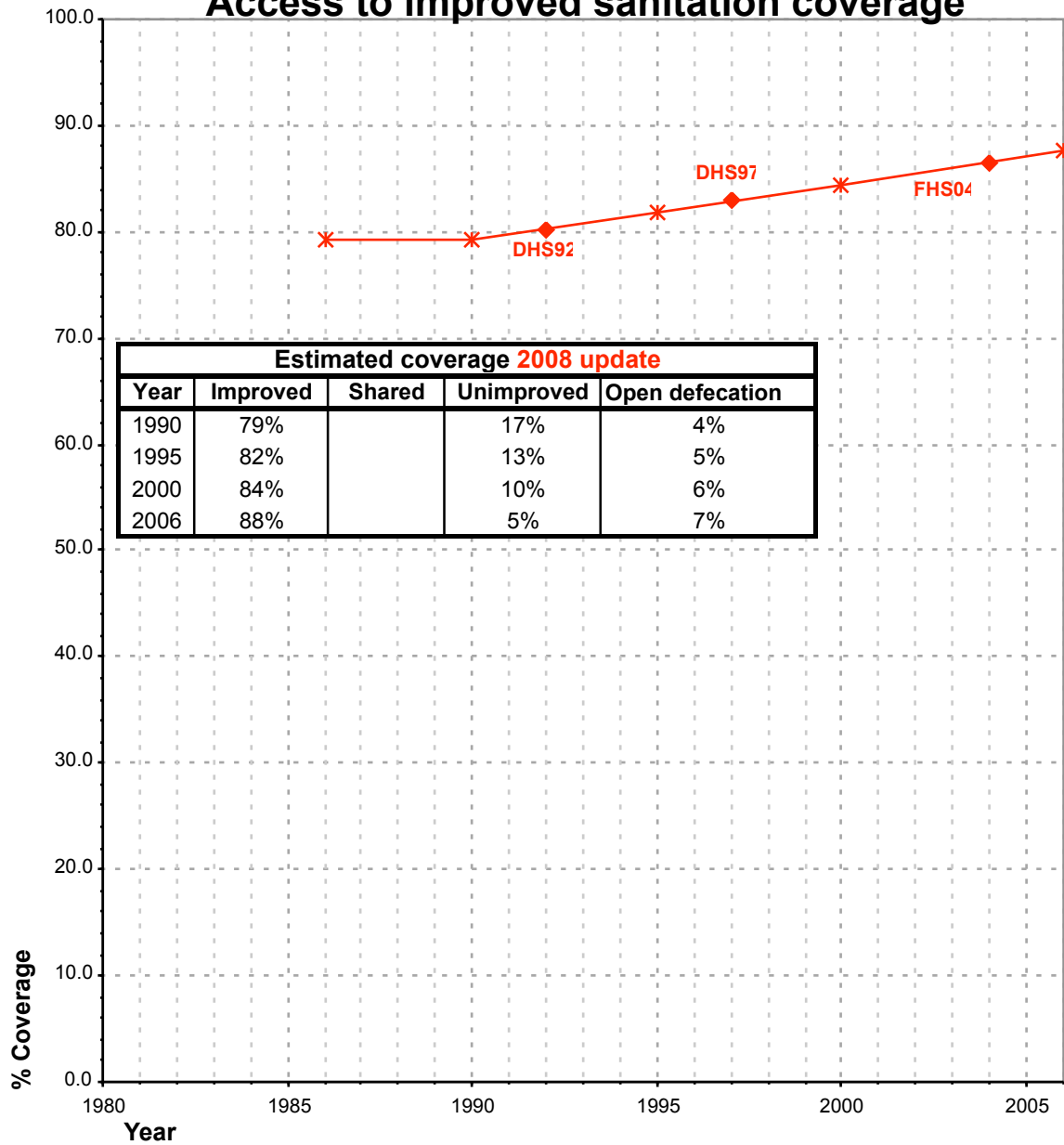
FORM6/WHO		1999	
SANITATION	Urban	Rural	
Population served with household connections to conventional sewers	1'082	0	
Population without household connections but served with adequate, private or shared on-site system	2'448	3'870	
Total population served	3'530	3'870	
Total population unserved	600	8'482	
Total population	4'130	12'352	
Access to improved sanitation	85%	31%	
% House connections	26%	0%	

Source: Global Water Supply and Sanitation Assessment 2000. Water Supply and Sanitation Sector Questionnaire - 1999 (Form 6 -sent to WHO)

Yemen			SANITATION										OPEN DEFECACTION			
			URBAN				RURAL				Urban		Rural			
			HC		Total		HC		Total		Used for estimates	Not used for estimates	Used for estimates	Not used for estimates		
Source	Code	Year	Used for estimates	Not used for estimates	Used for estimates	Not used for estimates	Used for estimates	Not used for estimates	Used for estimates	Not used for estimates	Used for estimates	Not used for estimates	Used for estimates	Not used for estimates		
The International Drinking Water Supply and Sanitation Decade. Review of National Baseline Data (as at December 1980). WHO 1984	WHO80	1980		10.0		60.0										
The International Drinking Water Supply and Sanitation Decade. Review of National Progress (as at December 1983). WHO 1986.	WHO83	1983		25.0		75.0										
The International Drinking Water Supply and Sanitation Decade. Review of Mid-Decade Progress (as at December 1985). WHO 1987.	WHO85	1985		32.0		83.0										
The International Drinking Water Supply and Sanitation Decade. Review of National Progress (as at December 1988). WHO 1990.	WHO88	1988		15.0		66.0										
Yemen Demographic and Health Survey, 1991/2.	DHS92	1992		38.1	80.2	80.2		0.5	15.9	15.9			5.9	52.4		
Water Supply and Sanitation Sector Monitoring Report 1993 (Sector Status as of 31 December 1991)	JMP93	1991				87.0										
Multiple Indicator Cluster Survey 1996 NO BREAKDOWN AVAILABLE	MICS96	1996				47.0					17.0					
National Census, Central Statistical Organisation, Ministry of Planning and Development, Republic of Yemen, 1997.	CEN97	1997		26.2		55.8		0.0		15.7						
Yemen Demographic and Health Survey, 1997.	DHS97	1997	36.4		83.1		1.4		22.2				3.5	43.3		
Global Water Supply and Sanitation Assessment 2000. Water Supply and Sanitation Sector Questionnaire - 1999. (Form 6 sent to WHO)	JMP99	1999		26.0		85.0		0.0		31.0			same data as CEN97 !			
Family Health Survey, 2004.	FHS04	2004	43.9		86.4		2.5		27.8				7.7	48.4		

DHS92 was reused for sanitation

Yemen - urban - Access to improved sanitation coverage



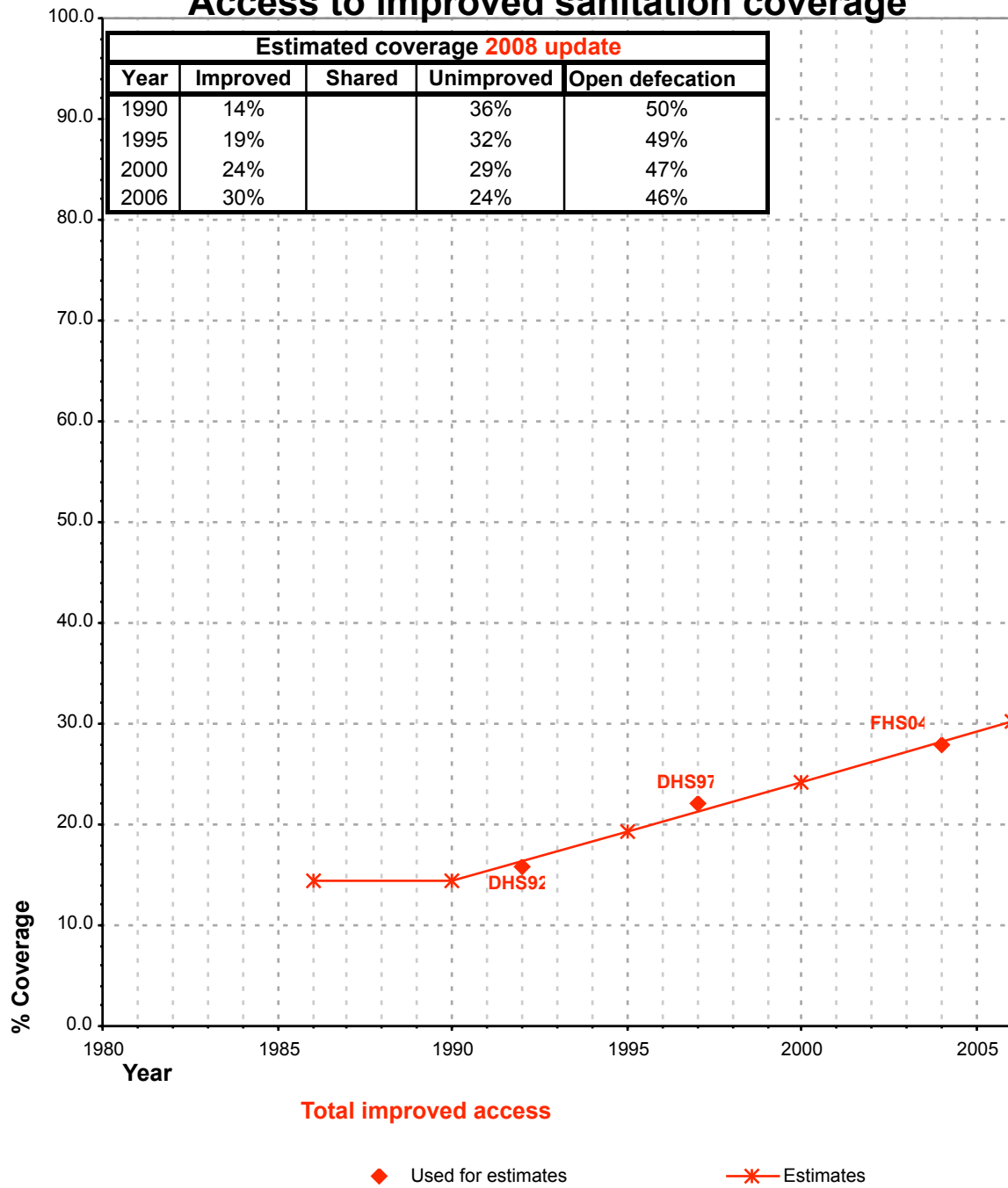
Total improved access

◆ Used for estimates

✱ Estimates

Total access : Census 1997 has not been used because of a too large category of unspecified facilities

Yemen - rural - Access to improved sanitation coverage



Total access : Census 1997 has not been used because of a too large category of unspecified facilities